

STAT 672, Spring 2011
Homework 3
due Thurs. Feb. 17

Show all work.

The numbers refers to *Hollander and Wolfe*, if not specified otherwise. Some problems may have additional parts.

1. p. 51, 3.10

Use the R function `wilcox.test` or `wilcox.exact` to calculate the value of T^+ . Compare the p-value from the approximation to the exact p-value from `wilcox.exact`. Also compare it to the p-value from `wilcox.test`

The data is available off the class web page at:

<http://www.rohan.sdsu.edu/~babailey/stat672/t3-5.txt>

2. p. 55, 3.19

In addition, sort through the Walsh averages to find an approximate 95% CI for θ . What is the achieved confidence level?

The data is available off the class web page at:

<http://www.rohan.sdsu.edu/~babailey/stat672/t3-5.txt>

3. p. 71, 3.50

In addition, compare the exact p-value for the Wilcoxon Signed Rank test to the exact p-value for the Sign test.

The data is available off the class web page at:

<http://www.rohan.sdsu.edu/~babailey/stat672/t3-1.txt>